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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/776,387	02/02/2001	Stanley N. Protigal	2898.2US (88-070.7)	2208	
²⁴²⁴⁷ TRASK BRI	7590 12/04/2002		EXAMI	NER	
P.O. BOX 25:			SEFER, AI	SEFER, AHMED N	
			ART UNIT	PAPER NUMBER	
			2826 DATE MAILED: 12/04/2002	14	

Please find below and/or attached an Office communication concerning this application or proceeding.

		400	-			
	Application No.	Applicant(s)				
	09/776,387	PROTIGAL ET AL.				
Office Action Summary	Examiner	Art Unit				
	A. Sefer	2826	_			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a represent the period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communication.				
1) Responsive to communication(s) filed on <u>09</u>	September 2002 .					
2a) ☐ This action is FINAL . 2b) ☑ T	his action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-10 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>3-5 and 8-10</u> is/are allowed.						
6)⊠ Claim(s) <u>1,2,6 and 7</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examin	ner.	by the Everniner				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the	LAdiffiliot.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper Not	5) 🔲 Not	erview Summary (PTO-413) Paper No(s) ice of Informal Patent Application (PTO-152) er:	-			

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DETAILED ACTION

Response to Amendment

The amendment filed on 9/9/02 has been entered. And the indicated allowability 1. of claim 6 is withdrawn in view of the newly discovered reference(s) to Frankeny et al. US Patent No. 4,903,113. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that 2. form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Frankeny et 3. al. US Patent No. 4,903,113.

Frankeny et al disclose in figs. 1-7 a semiconductor device system configured for electrical connection to external circuitry, the semiconductor device system comprising a carrier substrate 64; and a semiconductor device 70 secured and operably coupled to the carrier substrate and including a semiconductor substrate having active circuit devices thereon; and an on-chip capacitor 58 including at least a portion thereof being

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formed in an active area of the semiconductor substrate, the on-chip capacitor being operably coupled between the active devices and the carrier substrate to provide filtering capacitance for the semiconductor device.

4. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Clayton US Patent No. 4,656,605.

Clayton discloses (see figs. 1 and 2 and col. 2, lines 42-48) a semiconductor device system configured for electrical connection to external circuitry, the semiconductor device system comprising a carrier substrate; and a semiconductor device 10 secured and operably coupled to the carrier substrate and including a semiconductor substrate having active circuit devices thereon; and an on-chip capacitor 33 including at least a portion thereof being formed in an active area of the semiconductor substrate, the on-chip capacitor being operably coupled between the active devices and the carrier substrate to provide filtering capacitance for the semiconductor device.

5. Claim 2 is rejected under 35 U.S.C. 102(e) as being anticipated by Clayton US Patent No. 4,656,605.

Clayton discloses (see figs. 1 and 2 and col. 2, lines 42-48) a semiconductor device for operable connection to a carrier substrate, the semiconductor device comprising, a semiconductor substrate; active circuit devices 10-18 on the semiconductor substrate; and a capacitor 33 having at least a portion thereof formed in an active area of the semiconductor substrate, the capacitor being operably coupled to

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the active circuit devices to provide filtering capacitance when the semiconductor device is operably connected to a carrier substrate.

6. Claim 2 is rejected under 35 U.S.C. 102(e) as being anticipated by Frankeny et al. US Patent No. 4,903,113.

Frankeny et al disclose in figs. 1-7 a semiconductor device for operable connection to a carrier substrate, the semiconductor device comprising, a semiconductor substrate; active circuit devices 70 on the semiconductor substrate; and a capacitor 58 having at least a portion thereof formed in an active area of the semiconductor substrate, the capacitor being operably coupled to the active circuit devices to provide filtering capacitance when the semiconductor device is operably connected to a carrier substrate.

7. Claim 6 is rejected under 35 U.S.C. 102(e) as being anticipated by Frankeny et al. US Patent No. 4,903,113.

Frankeny et al disclose in figs. 1-7 a semiconductor die assembly for connection to external circuitry, the semiconductor die assembly comprising a carrier substrate configured for providing power 60 and ground 62 for at least one semiconductor die 70 operably connected thereto; and at least one semiconductor die connected to the carrier substrate and including a semiconductor substrate having active circuit elements formed on an active areas thereof; at least one capacitor 58 on the semiconductor substrate, at least a portion of the at least one capacitor being formed on the active area, the at least one capacitor operably connected to the active circuit elements to provide filtering capacitance the at least one semiconductor die.

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8. Claim 7 is rejected under 35 U.S.C. 102(e) as being anticipated by Frankeny et al. US Patent No. 4,903,113.

Frankeny et al disclose in figs. 1-7 a semiconductor device for connection to a carrier substrate configured power 60 and ground 62 thereto, the semiconductor device comprising a semiconductor substrate having active circuit elements formed on an active areas thereof; at least one capacitor 58 on the semiconductor substrate, at least a portion of the at least one capacitor being formed on the active area, the at least one capacitor operably connected to the active circuit elements to provide filtering capacitance therefore when the semiconductor device is operably connected to a carrier substrate.

Allowable Subject Matter

9. Claims 3-6 and 8-10 are allowed.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Weinberg et al. US Patent No. 4,616,655 disclose a device with active and passive chips having a single PCB and a chip carrier.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Sefer whose telephone number is (703) 605-1227.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J Flynn can be reached on (703) 308-6601.

ANS November 29, 2002

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